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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,086	09/05/2003	Yong-Chul Park	50736/DBP/Y35	9934	
23363	7590 11/22/2005		EXAM	EXAMINER	
CHRISTIE,	PARKER & HALE, L	WEINER,	WEINER, LAURA S		
PO BOX 706	58 ., CA 91109-7068		ART UNIT	PAPER NUMBER	
17101102111	, 011 31103 7000		1745 .		
			DATE MAILED: 11/22/200	DATE MAILED: 11/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · -		Applic	cation No.	Applicant(s)					
Office Action Summary		10/65	6,086	PARK ET AL.					
		Exami	ner	Art Unit					
		Laura	S. Weiner	1745					
Period fo	The MAILING DATE of this communi or Reply	cation appears on	the cover sheet	with the correspondence a	ddress				
WHIC - External after - If NO - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Isions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commit period for reply is specified above, the maximum states are to reply within the set or extended period for reply we reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In nunication. Intuitivity period will apply are will, by statute, cause the	THIS COMMUN o event, however, may nd will expire SIX (6) Mi application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this a ABANDONED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed	d on 05 Septemb	er 2003						
·	This action is FINAL . 2b) ☐ This action is non-final.								
′=) Since this application is in condition for allowance except for formal matters, prosecution as to the merits i								
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 🖂	Claim(s) 1-34 is/are pending in the a	oplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
	_								
8)⊠	8) Claim(s) 1-34 are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by the	Examiner.							
10)	The drawing(s) filed on is/are:	a) accepted or	r b)□ objected t	o by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including	the correction is red	quired if the drawin	ng(s) is objected to. See 37 C	FR 1.121(d).				
11)	The oath or declaration is objected to	by the Examiner.	. Note the attach	ed Office Action or form P	TO-152.				
Priority ι	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the Internation	•	• • •						
* 8	See the attached detailed Office action	i for a list of the c	ertified copies no	ot received.					
Attachmen	ric)								
	e of References Cited (PTO-892)		4) Interview	v Summary (PTO-413)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (P1	O-948)	Paper N	o(s)/Mail Date					
3) [] Inforr Pape	nation Disclosure Statement(s) (PTO-1449 or F r No(s)/Mail Date	PTO/SB/08)	5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-19, 31-34, drawn to a lithium battery and an electrolyte for a lithium battery comprising an additive, classified in class 429, subclass 307.
 - II. Claims 20-26, drawn to an electrolyte comprising an additive and a poly(ester)(meth)acrylate, classified in class 429, subclass 309.
 - III. Claims 27-30, drawn to a method for preparing an electrolyte, classified in class 429, subclass 188.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are unrelated because they are not disclosed as capable of use together and have different functions and different effects such that Group I requires specific sulfone-based compounds, a specific azo compound, 2,2'-azobisisobutronitrile and specific organic solvents which is not required by Group II and Group II requires specific (polyester)polyol, (meth)acrylic esters and specific groups having no radical reactivity.

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3. Inventions I, II and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be used to make other and materially different product such as for a capacitor.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to the following patentably distinct species of the claimed invention:

If pick Group I:

- A) choose the sulfone-based compound as Formula 1, Formula 2 or Formula 3.
- B) choose 1) a C3-C30 organic peroxide (choose specific compound from claim 7) or 2) an azo-based compound (specifically claim 8).
- C) choose the organic solvent to be:
- 1) carbonates (claims 12-13) or
- 2) esters (claim 12) or
- 3) ethers (claim 12) or
- 4) ketones (claim 12) or 5) a mixed solvent of cyclic carbonate and a chain carbonate (claim 14) or
- 6) mixed solvent of carbonate and an aromatic hydrocarbon (claims 15-17) (choose

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specifically from claim 17) or

7) a mixed solvent of EC and a carbonate having a lower boiling point (claim 19).

If pick Group II:

A) pick from claim 22

B) pick from claim 23

C) pick from claims 24-25.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 5-6, 10-11, 20-21, 26-34 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. A telephone call was not made due to the complexity to request an oral election to the above restriction requirement, therefore an election has not been made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura S Weiner
Primary Examiner
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November 17, 2005